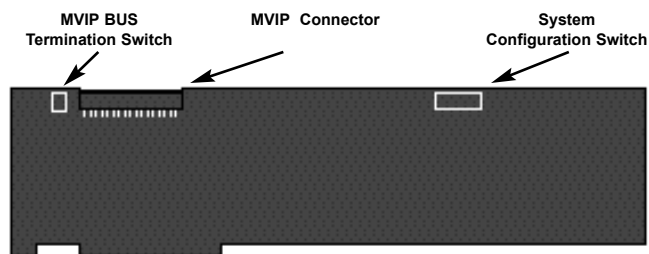


TRITON T1 BOARD

QUICK INSTALLATION GUIDE



TRITON T1 BOARD

The Triton T1 Board uses the following signaling and framing features:

Signaling: loop start, ground start, E&M immediate start, E&M wink start*

Line Encoding: AMI, B8ZS*

*recommended

MINIMUM SYSTEM REQUIREMENTS:

- IBM/PC AT compatible system with adequate number of full-size ISA and PCI slots
- 233 Mhz Pentium processor (or better)
- 2 - 4 GB Hard Disk Drive Space (depending on voicemail requirements)
- Windows NT Server 4.0 with Service Pack 4 (or higher) installed
- 128 MB RAM
- AltiGen's Quantum Telephony Board (one or more, Rev. D or higher)
- AltiGen's Triton T1 Board (one or more)
- AltiWare OE R3.0 (or higher)
- 300W/10A CPU Power (minimum required to power AltiGen boards only)
- CSU (Channel Service Unit)

# of AltiGen Boards	# of Slots**	CPU	HDD
1 Triton T1, 1-3 Quantum	2 PCI, 3 ISA	233 Mhz	2GB
1 Triton T1, 1-6 Quantum	2 PCI, 6 ISA	300 Mhz	2GB
1-4 Triton T1, 1-10 Quantum	5 PCI, 10 ISA	350 Mhz	4GB

# of AltiGen Boards	Power Supply**	Typical Power Supply
1 Triton T1, 1-3 Quantum	+12V: 4.2 Amps +5V: 6Amps	300W/30A@5V/12A@12V
1 Triton T1, 1-6 Quantum	+12V: 8.4 Amps +5V: 10.8Amps	400W/40A@5V/16A@12V
1-4 Triton T1, 1-10 Quantum	+12V: 14 Amps +5V: 21Amps	400W/40A@5V/16A@12V

** The above system requirements are for AltiGen components only, and do not take into account requirements for other system components such as motherboard, disk drives, etc.

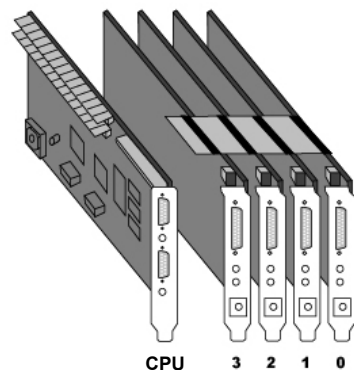
LED Indicators

GREEN LED	RED LED	Status
OFF	OFF	No power
ON	OFF	Normal operation
OFF	ON	No signal
ON	Flashing	Faulty signal with frame synchronization***
OFF	Flashing	Faulty signal without frame synchronization
Alternating	Alternating	Frame slips in normal operation

*** Faulty signals include the following: yellow alarm, bipolar violation or frame error

STEP 1: MAKE SURE BOARD ID OF QUANTUM BOARD(S) IS SET PROPERLY

The first (outer-most) Quantum board ID should be set as 0, the next board ID as 1, and so forth. Do not skip slots between boards. Refer to the *Quantum Quick Installation Guide* for proper installation instructions.

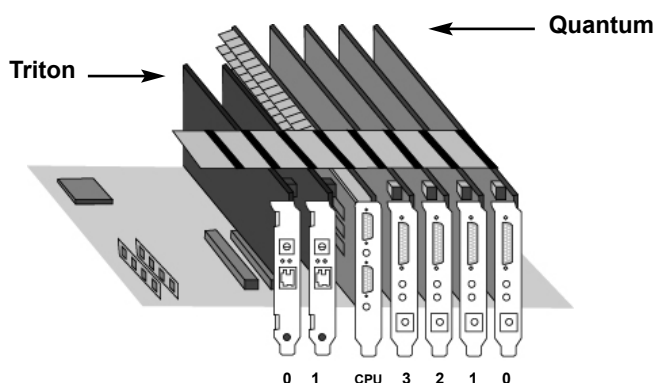


STEP 2: INSERT TRITON T1 BOARD(S) INTO PCI SLOTS

After installing the Triton T1 Board(s), make sure the Triton T1 board ID is set properly. The first (outer-most) Triton T1 Board should be set at 0, the next board ID as 1, and so forth. Do not skip slots between boards.

The T1 Boards must be set with ID ranges of 0 - 3. If 4 or greater is selected as the Board ID, the board will not function.

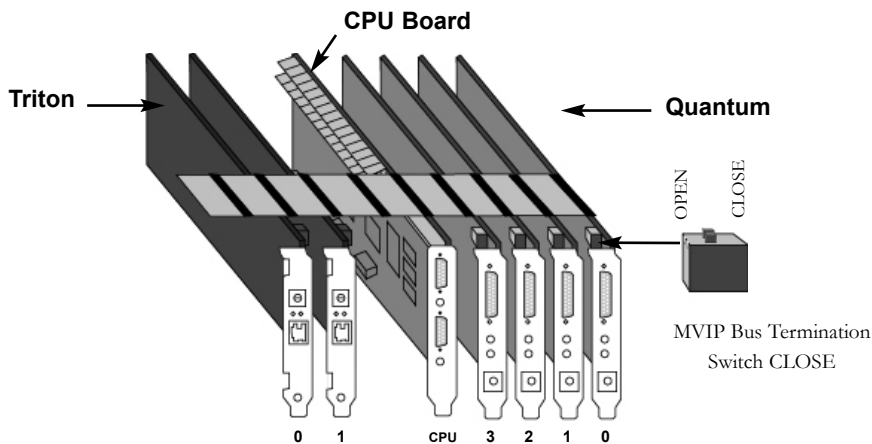
NOTE! If Triton VoIP Boards are installed, the T1 Board should begin with ID of 0 and should be the first (outer-most) boards, followed by the VoIP Boards.



STEP 3: CONNECT THE MVIP CABLE AND TERMINATE THE MVIP BUS

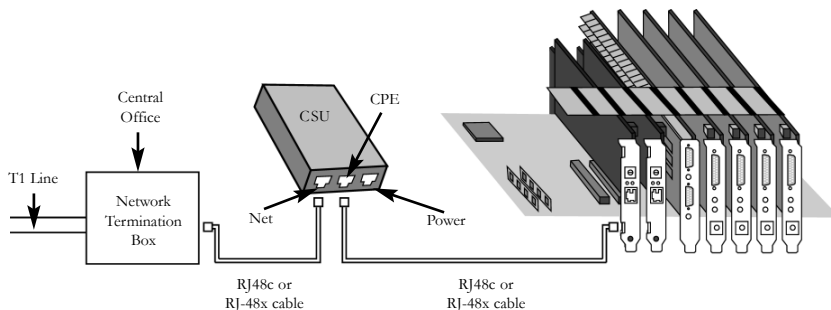
IMPORTANT! Make sure the MVIP bus is terminated (set to close) at the Quantum Board with ID of 0. All other boards are not terminated (MVIP Bus Termination Switch set to OPEN). **DO NOT TWIST THE MVIP CABLE.** It should lay flat when connected to boards, as shown below.

The MVIP Bus is only terminated on one board per system.



STEP 4: CONNECT CSU (CHANNEL SERVICE UNIT) TO TRITON T1 BOARD

Using Adtran's CSU (model T1 CSU ACE) as an example, connect your CSU to the Triton T1 board using an RJ-48C or RJ-48X cable. Then, connect your CSU to your network termination box using an RJ-48C or RJ-48X cable.



For T1 Socket (RJ-48)
Receive Ring = Pin 1
Receive Tip = Pin 2
Transmit Ring = Pin 4
Receive Tip = Pin 5

For Adtran CSU
NOTE: The default settings for the equipment Line Build Out (LBO) and the network LBO are for distances shorter than 133 ft.
CAUTION: Switch ON the Manual Loopback (LB) when the equipment connection (from the Triton Board) is not ready. This will give the CO good signal and prevent the CO from switching off service. Switch OFF the Manual LB in normal operation.

**STEP 6: TURN SYSTEM ON AND INSTALL ALTIWARE OE
OR START ALTIWARE OE TO CONFIGURE NEW T1 TRUNKS**

Please see the following sections in the AltiWare OE manuals for details on how to configure T1 trunks:

- *System Administration Manual*
 Chapter 3, Board Configuration
 Chapter 4, Trunk Configuration

TECHNICAL SUPPORT

- End users, please contact your Authorized AltiGen Dealer.
- Authorized AltiGen Dealers,
 Call AltiGen Technical Support at 1-888-ALTIGEN (258-4436)
 Send E-mail to: support@altigen.com
- Please provide the following information so that the support representative can provide fast service and solution to your problem.

Serial #: _____ AltiWare Release #: _____

Server HW: CPU _____, Memory _____, Hard Drive _____

of AltiGen boards installed: Quantum _____ Triton _____

Description of the problem:
